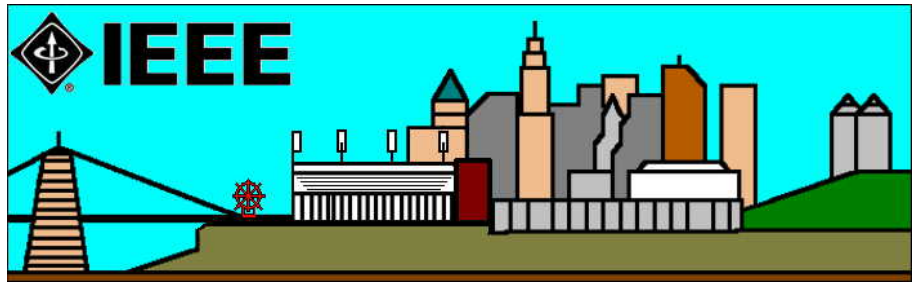


**IEEE CINCINNATI
SECTION
NEWSLETTER
MAY 2006**



MAY MEETING
SENIOR PROJECTS

DATE: Thursday, May 25, 2006

PLACE : Raffel's – 10160 Reading Road (see below for directions)

TIME : 5:30 p.m. to 7:00 p.m. - Social Time/Dinner
7:00 p.m. to 8:30 p.m. - Program

COST FOR DINNER: \$10.00 for Student Members
\$15.00 for Members
\$20.00 for Non-Members

NOTE: DINNERS ARE ALWAYS OPTIONAL - YOU MAY ATTEND THE PROGRAM ONLY.

MENU SELECTIONS: Country Fried Chicken, Spaghetti with Meatballs, Meatloaf served with Brown Gravy, Whipped Potatoes, Succotash, Caesar Salad, Fresh Fruit Salad, Buttermilk Bisquits, Apple Dumplings, Coffee, Tea Iced Tea, Soft Drinks. There is also a bar available for the purchase of alcoholic drinks.

LOCATION: Raffel's is located at 10160 Reading Road, south of Glendale-Milford Road on the east side of Reading. Take I-75 to the Glendale-Milford Rd. Exit, go east on Glendale-Milford Road approximately 3/4 of a mile to Reading Rd. and turn right on Reading.

The Section Meetings provide a great opportunity to network with fellow engineers in the area!!!

Please call the Cincinnati Section Voice Mailbox at **513-629-9380**, by **Noon, Tuesday, May 23, 2006** if you plan to attend. Please leave your Name, IEEE Member Number, and a daytime telephone number. You can also make a reservation by e-mailing our Arrangements Chair, Charlie Nash, at cnash@ieee.org.

ABOUT THE MEETING: This month's meeting will feature presentations by senior students from the Electrical and Computer Engineering Technology Program at the University of Cincinnati College of Applied Science and the Computer and Electronics Engineering Technology Program at Northern Kentucky University that highlight the results of their senior projects. Two students from each university will present their findings in a brief slideshow, demonstrate their projects, and answer questions from the audience.

CHAIR'S MESSAGE

by Jim Everly, Section Chair

Last month's meeting featured Jeff Hunsinger of Atmel who introduced Atmel's new 32-bit microprocessor, the AVR32. I enjoyed his presentation and was pleased to receive a certificate of continuing education credit from our PACE chairman. This month features senior design presentations from students at the University of Cincinnati's College of Applied Science and also students from Northern Kentucky University.

One of the most important "soft skills" that a young technical person must develop to become successful is the ability to communicate effectively the essence of his/her technical work in an extraordinarily short time and/or small space. Senior Design project posters and technical presentations provide the mechanism for each student to enhance presentation skills.

As indicated last month I am looking to add new positions to the Cincinnati Section Executive Committee. If you have any interest in serving the Cincinnati Section let me know. The committee meets about four times a year and is responsible for technical meeting and other activities concerning IEEE. Also, I am always interested in elevation of section members to the grade of IEEE Senior Member. Please contact me if you have an interest in upgrading your membership.

MEMBERSHIP NEWS

NEW MEMBERS

The following individuals are IEEE members who are new to our Section:

Charles Atmore	Kathleen M. Guzman	David B. Moore	Jonathan P. Ring
Ratnabali Biswas	James T. Izon	Paul Naglich	Thomas S. Shore III
R H. Black	Zachary A. Jacobs	Nagesh S. Nandiraju	Adam Smieszny
Niladri S. Bose	Christopher M. Johnson	Craig E. Neihsel	Peggy Stagge
Yi Cheng	Shailesh C. Kapadia	Benjamin D. Ott	Paul F. Weingartner
Serling A. Davis	Christian Moeller	Karl A. Parker	Rui Zhou

We wish to welcome these new members to the Cincinnati Section!!!

UC's College of Applied Science Celebrates 20 Years of Tech Expo

Tech Expo, the premier annual event at the College of Applied Science, celebrates 20 years on Friday, May 19. This event showcases the senior design projects completed by students at the College of Applied Science in disciplines ranging from Electrical Engineering Technology to Information Technology to Mechanical Engineering Technology to Construction Management and others. This year's event is again being held at the Cinergy Center downtown, runs from 10am to 4pm and is free and open to the public.

New additions to the event this year include a seminar presented by TechSolve on "lean management" offered at no cost to all Tech Expo business sponsors. The popular VIP Networking Reception returns as well, and new enhancements to sponsorship levels have been made.

IEEE members are encouraged to attend Tech Expo – you will be amazed by the innovative, creative and diverse student projects. Members are also encouraged to consider sponsoring Tech Expo – see the **Fact Sheet on the 2006 Tech Expo** on the Section's Web Page (<http://ieee.cincinnati.fuse.net/>) to learn about sponsorship opportunities. For more information, contact Project Leader Betsy Zelek at bzms@zoomtown.com, or by phone at (513) 702-2732.

College of Applied Science

TECH EXPO 2006

**Become a
Sponsor**

Commemorating
our **20th year**
of Tech Expo

TECH EXPO

Friday, May 19, 2006

Cinergy Center

(Convention Center – downtown Cincinnati)

contact:

Betsy Zelek

513/702-2732

bzms@zoomtown.com

UNIVERSITY OF
Cincinnati

Levels of Participation

EDISON

\$2500

- Be featured as the sponsor of a community of student and business exhibits in your field or discipline. As a sponsor, your 10' x 10' exhibit booth will be placed in a premium location and will feature special signage and draping. *This benefit will be offered to a very limited number of companies and organizations!*
- Sponsor a departmental award named for your business — award will honor a top student display at Tech Expo
- Receive a complimentary booth at the popular CAS Job Fair, held in 2006-07 — a \$250 value that provides access to hundreds of students and alumni!
- Invitation for your company representative to attend the VIP networking reception at Tech Expo 2006; your company will receive special recognition at this event
- Assist in selection of the *Industry Partners Commendation Award* for the best senior project display
- Have a photo of your Expo booth *plus* a special listing as an Edison Community Sponsor in the 2006-07 edition of *Tech Record* (alumni publication — distribution 10,000)
- Special listing as an Edison Community Sponsor in the 2006 edition of the Tech Expo Program

RIEVESCHL

\$1500

- Sponsor a departmental award named for your business — award will honor a top student display at Tech Expo 2006
- Receive a complimentary booth at the popular CAS Job Fair, held in 2006-07 — a \$250 value that provides access to hundreds of students and alumni!
- Assist in selection of the *Industry Partners Commendation Award* for the best senior project display
- 10' x 10' display booth during Tech Expo 2006
- Invitation for your company representatives to attend the VIP networking reception at Expo 2005
- Have a photo of your Expo booth *plus* a corporate listing in 2006-07 edition of *Tech Record* (alumni publication — distribution 10,000)
- Corporate Listing in 2006 edition of the Tech Expo Program

PARKER

\$750

- 10' x 10' display booth during Tech Expo 2006
- Invitation for your company representatives to attend the VIP networking reception at Expo 2006
- Corporate Listing in 2006-07 edition of *Tech Record* (alumni publication — distribution 10,000)
- Corporate Listing in 2006 edition of the Tech Expo Program

Your sponsorship is tax deductible to the fullest extent of the law. Checks should be made payable to the University of Cincinnati Foundation.



The College of Applied Science

Presents

**A Concentrated One-Week Short Course
Designed Specifically For
Practicing Engineers and Technologists**

Programmable Logic Controllers Selection & Functions

June 5-9, 2006

**Professional Development endorsed -
3 ceu credits are offered and validated through
IEEE**

Course is designed to meet the needs of people working in the following fields:

**Electrical and Electrical Engineering Technology,
Mechanical and Electro-mechanical Engineering Technology,
Engineering Consulting,
Programmers of PLC Devices,
Maintenance Personnel in Charge of Industrial Control**

Principal Topics covered include:

**Selection of the appropriate PLC device
Connecting PLC Ports to Contacts, Relays, Switches, Motors, Pilot lights, etc.
Relay Logic and Ladder Logic Rules
Programming (using Allen Bradley SLC500 Series PLCs)
Timer and Counter Functions
Data Handling, Math, and Compare Functions
Jump, Jump Subroutine, and MCR Functions
Digital Bits Shift and Rotate Functions
Sequencer Functions
Local Area Networking PLCs**

Course Format:

Morning lecture – 3 hours followed by Afternoon laboratory exercises – 4 hours

Your Instructor:

Max Rabiee, Ph.D., P.E.

Max has taught for 23 years and has been a member of the faculty of the College of Applied Science for the last 5 years. His industrial experience includes work with Watkins and Associates Engineering Company, University of Kentucky (UK) Center for Robotics and Manufacturing, Project sponsored by Toyota Motor Manufacturing, Wright-Patterson Air Force Base, Sundstrand Aerospace Corporation, and The Tennessee Valley Authority. Max has authored five textbooks and is a Registered Professional Engineer in the State of Kentucky as well as a Senior Member of the Institute of Electrical and Electronic Engineering (IEEE) Society.

Dr. Rabiee has authored five texts and laboratory manuals in Programmable and Small Language Controllers since 2000 and is a frequent contributor to technical journals with more than 30 articles published. In addition to the projects listed above, Max has led grant projects utilizing PLC technology and equipment from National Instruments and Allen-Bradley.

You will need:

All required materials will be provided within the course registration fee.

Registration :

All expenses including ceu registration with IEEE and text are included within the course fee of \$1,495.00.

Payment may be made through check, credit card, or company purchase order. To reserve your seat in this dynamic, hands-on course, please complete the registration form below and either fax to 513-556-5328, call 513-556-6558, mail to: College of Applied Science – ECET, University of Cincinnati, PO Box 210103, Cincinnati, Ohio 45221-0103 or log onto www.uc.edu/cas/polyphase.

Register me for the Short Course

Name: _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Payment by: Check ____ Company Purchase Order # _____

Credit Card (Visa, Mastercard, Discover) _____

Card Number: _____ Exp. _____

Scanning the Past: A History of Electrical Engineering from the Past

Submitted by Dick Reiman, Historian

Copyright 1994 IEEE. Reprinted with permission from the IEEE publication, "Scanning the Past" which covers a reprint of an article appearing in the Proceedings of the IEEE Vol. 82, No.4, June 1994...

Albert Hoyt Taylor

Seventy-five years ago this month, the PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS (IRE) included a paper by A. Hoyt Taylor on the subject of concealed radio receiving systems. He had submitted the paper almost three years earlier, but, like a number of other technical papers perceived to be of military importance, it was not published until after World War I. Taylor had written the paper while he was still a physics professor at the University of North Dakota, but he had become a U.S. Navy officer during the War. He was to become a pioneer in the field of radar during along career at the Naval Research Laboratory and was author or coauthor of 14 IRE papers published between 1916 and 1936.

In his June 1919 paper, Taylor reported that he had discovered that he could dispense with a conventional outdoor antenna with ground connection and still get good reception. He stated that he had been able to pick up time signals from the Navy's station in Arlington, VA, and had received several other stations hundreds of miles away using a rectangular loop of many turns of wire located inside a building. He pointed out that a loop antenna of this type could be easily concealed behind a curtain or inside a wall if it should be desirable to do so for military or other reasons.

Taylor was born in Chicago, IL, in 1879 and graduated from Northwestern University in 1902. He undertook his first radio investigations during 1899, which led to his first published paper in 1902. He taught at the University of Wisconsin from 1903 to 1908 before going to Germany for graduate studies. He received the Ph.D. degree from the University of Göttingen in 1909 with a thesis on aluminum rectifiers. He returned to the United States as Professor of Physics and Department Head at the University of North Dakota, where he remained until 1917. While there he built an experimental radio station which he used in pioneering studies of wave propagation and directive antennas.

In 1917, Taylor accepted a Naval Reserve commission and was appointed District Communication Officer at the Great Lakes Naval station in Chicago. He established a laboratory and began research on the use of underground and underwater antennas for very-low-frequency radio reception. Soon afterward, he was transferred to Belmar, NJ, as transatlantic communications officer in charge of several high-power stations on the East Coast. In 1918 he was assigned to head an experimental division of the Naval Air Station at Hampton Roads, VA, where research on aircraft radio was undertaken. The following year he became head of the Aircraft Radio Laboratory at Anacostia, DC, with a staff of fifteen people. Taylor resigned from the Navy in 1922 but remained at Anacostia as a civilian employee.

During 1922, Taylor and Leo Young observed reflections of high-frequency radio waves from ships on the Potomac River as they passed between a transmitter and a portable receiver. This led to a radar development project directed by Taylor and a 200-MHz radar was ready for installation on a ship by 1937. When the Naval Research Laboratory was established in 1923, Taylor became superintendent of its Radio Division, a position he held until 1945. He participated in systematic investigations of high-frequency propagation phenomena including ionospheric effects.

Taylor received the Morris Liebmann Memorial Prize of the IRE in 1927 for his research on short waves. He served as President of the IRE in 1929 and was recipient of the IRE Medal of Honor in 1942. He also served on the Communication Committee of the American Institute of Electrical Engineers from 1936 to 1942. He retired from the Naval Research Laboratory in 1948 and died in December 1961 at age 82.

**S.W. OHIO CHAPTER OF THE ASSOCIATION OF ENERGY ENGINEERS
TO HOLD PRESENTATION ON HYBRID VEHICLES**

The S.W. Ohio Chapter of The Association of Energy Engineers will have, at their May 19th, 2:00 p.m. meeting, a presentation by Ken Kreadle of Toyota Motor Manufacturing. Ken will discuss Toyota's Hybrid Synergy Drive System, which is available on the Prius, Camry & Highlander SUV. This system utilizes a combination of mechanical & electrical technologies to attain optimum fuel economy, performance & low emissions for environmental sensitivity, making these vehicles state-of-the-art.

This technology combines a gas engine & an emissions-free electric motor to achieve amazing mileage results. At idle, the vehicle's gas engine shuts off, at which time the electric motor is ready to take over. When braking & coasting, a regenerative braking system captures wasted energy & converts it into electric energy that's stored in the battery.

During low-speed acceleration, the electric motor is used primarily. In highway driving, the gas engine is mainly used. In highway passing situations, power is produced from a mix of gas & electric.

Come & learn how it all works together. Guests are welcome.

Reservations: Please call or e-mail Marc Bell, Duke Energy, (513) 287-2452, marc.bell@duke-energy.com, by Thursday, May 18.

Directions: From I-275 in Ohio, take Exit 36, Mt. Healthy/Hamilton Avenue, Route 127. Turn left off the exit. Turn left at Waycross Road. Travel approximately one mile to Union Central, which is on the left. Park in Visitors Parking area. Enter the building at the Employee/Visitor entrance. Check in with security person.

IEEE NEWS

2007 NATIONAL ELECTRICAL SAFETY CODE AVAILABLE FOR ADVANCED ORDERS

The National Electric Safety Code (NESC(R)) has been updated and is now available for advance orders ahead of its on-sale date of 1 August 2006. The code, which is used throughout the United States and in more than 100 countries, offers practical guidance on how to safeguard employees and the public when electrical supply and communication lines are designed, installed, operated and maintained. It is updated every five years to reflect changes in the electrical and communications industries. The 2007 version includes new appendices on loading and conductor movement, extreme wind loading, and maximum over-voltage at a work site. For more information, visit: <http://standards.ieee.org/nesc/nescproducts.html>

IEEE's "The Institute" On-Line

The updated issue of IEEE's "The Institute" is always available on-line at <http://www.ieee.org/theinstitute>. Check out some of these items which are featured:

- Women in Engineering Group Celebrates Record Growth. For the IEEE Women in Engineering (WIE) group, if strength is measured in numbers, then last year was the group's strongest ever. More than 1500 people joined, the largest annual jump in its history. Last year also saw the formation of 43 WIE Affinity Groups and Student Affinity Groups, the most ever established in one year. Find out more about this growth at <http://boldfish.ieee.org:80/u/2652/04824637>

- Virtual Museum Takes On Tiny Subject. There are those who predict that nanotechnology -- which involves miniscule particles and devices measuring less than 100 nanometers across -- will lead to cures for cancer or precipitate the next great leap forward in computing power. But with the hype should come reality, which is presented in a new exhibit on the IEEE Virtual Museum. Find out more at <http://boldfish.ieee.org:80/u/2653/04824637>
- E-mail Newsletters Let You Know. The "What's New @ IEEE" newsletters have been growing in popularity: subscriptions rose by more than 7 percent in 2005. These free monthly e-mail newsletters, with a variety of articles so brief that each one takes about 15 seconds to read, also offer Internet links that let you dig deeper should a topic pique your interest. Read more at <http://boldfish.ieee.org:80/u/2654/04824637>
- IEEE Senior Member Paves the Way for Others. When IEEE Senior Member Cheryl B. Schrader was an undergraduate EE student, the idea of pursuing an academic position never even crossed her mind. It wasn't until a male professor suggested it to her that she considered such a career. That's because she didn't have a mentor or even a woman engineer as a role model. Her work to ensure that today's bright, young female engineering students have good mentors and role models earned Schrader the 2005 U.S. Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. Learn more at <http://boldfish.ieee.org:80/u/2656/04824637>
- Gifts to IEEE Foundation Seek to Help Students. The high cost of financing an education today has many students -- and their parents -- in search of scholarships and grants. To help with the financial burden, the IEEE Foundation has set up two new programs to help fund the education of future engineers. Find out more at <http://boldfish.ieee.org:80/u/2657/04824637>
- Digital Library Researchers to Meet in June. An electronic hum has joined the traditional library sounds of soft footsteps, rustling paper, and the thump of books on tables. Libraries are going digital, with new types of content and new ways to index and deliver the old. The Joint Conference on Digital Libraries, to be held from 11 to 15 June, at the University of North Carolina at Chapel Hill, will explore the nature of these new methods. Read more at <http://boldfish.ieee.org:80/u/2658/04824637>
- Proceedings Features More Than 400 Tech Papers on Wireless. More than 2500 pages of research on signal processing are now available in the newly released proceedings of the 2005 IEEE Wireless Communications and Networking Conference, held 13 to 17 March, in New Orleans. Topics include traffic engineering, sensor network design, and end-to-end performance. Institutions with subscriptions to IEEE online collections can access the proceedings through the IEEE Xplore digital library, depending on their access rights. For more information, visit <http://boldfish.ieee.org:80/u/2660/04824637>
- Submit Questions to the President-Elect Candidates. Members will have an opportunity to submit questions to the two candidates running for 2007 IEEE President-Elect and hear their responses online. Lewis M. Terman and John Vig will answer members' questions, and their responses will be broadcast over the IEEE Election Web site at <http://boldfish.ieee.org:80/u/2661/04824637> during the voting period. If you have a question about an IEEE issue, send it to corp-election@ieee.org (Election ballots will be mailed to all eligible voting members by 1 September.)
- Online Seminar Offers Financial Planning Advice. Join your colleagues in an Internet seminar called "Plan for Financial Success: Keys to Live By." The seminar, sponsored by the IEEE Graduates of the Last Decade group, will be held on 20 May at 10:00 a.m. EDT/14:00 GMT. Seminar leaders will discuss

investing, retirement, college education for members' children, as well as other life situations. Registration closes on 12 May. To register or for information about the technical requirements to attend, go to <http://boldfish.ieee.org:80/u/2663/04824637> . Send questions to gold@ieee.org

- Open Target: Where America Is Vulnerable to Attack. IEEE Spectrum takes an inside look at the real issues of U.S. port and border security: risk assessment, homeland security funding, and the preparedness of government agencies. Listen to a special audio podcast report by IEEE Spectrum senior reporter, Harry Goldstein, and commentary by Clark Kent Ervin, former inspector general of the U.S. Department of Homeland Security and author of "Open Target: Where America Is Vulnerable to Attack." Listen now at <http://boldfish.ieee.org:80/u/2664/04824637>
- Bell's First Phone Call Hailed as Boston Section Milestone. In a rooming house attic in Boston, in 1876, Alexander Graham Bell summoned his assistant, Thomas Watson, in the world's first telephone call. Now 130 years later, that first transmission of intelligible speech over electric wire has been designated an IEEE Milestone in Electrical and Computing Engineering. Find out more at <http://boldfish.ieee.org:80/u/2752/04824637>
- Query the Candidates for 2007 President-Elect. Make your voice heard by submitting questions to the President-Elect candidates, Lewis M. Terman and John Vig. They'll be answering questions face-to-face on 27 June, in Philadelphia. Send your questions to corp-election@ieee.org
- Deadline Nears for Ethics Award Nominations. The IEEE Award for Distinguished Ethical Practices, to be given for the first time in 2007, will recognize exemplary or persuasive advocacy or promotion of ethical behavior or practices by an IEEE member or by an organization employing IEEE members. The deadline for nominations is 1 July. For nomination forms, visit <http://boldfish.ieee.org:80/u/2753/04824637>
- IEEE Helps Bring Tech Literature Back to Iraq. The IEEE and 15 other science and technology publishers are helping to build virtual libraries at Iraqi universities and government agencies. The publishers are offering deeply discounted subscriptions to their digital libraries through an agreement with the U.S. National Academy of Sciences. The accord will provide approximately 20 000 journals to the new Iraqi Virtual Science Library. Learn more at <http://boldfish.ieee.org:80/u/2755/04824637>
- IEEE Computer Society Partners With Samsung. The IEEE Computer Society has partnered with South Korea's largest educational institution to develop online and offline certification preparation courses and tests for software developers. The first of its kind, this arrangement could introduce the IEEE Certified Software Development Professional test to more than 3000 software engineers at the institution initially and, in time, to all Korean software developers. Find out more at <http://boldfish.ieee.org:80/u/2756/04824637>
- Marketplace of Ideas: Going Green. With higher gas prices and concerns about global warming, high-mileage vehicles are gaining popularity. An all-electric, lithium battery-operated car from Hybrid Technologies Inc., in New York City, promises motorists 480 kilometers on a 5-hour charge from a 110-volt electric power outlet (typical electric cars travel 130 to 200 km per charge). Would you consider buying such a car? Weigh in at institute@ieee.org
- Communications Magazine Examines Telemedicine's Reliance On Wireless. The April issue of IEEE Communications Magazine looks at the influence of new wireless technologies on telemedicine. Such systems must operate reliably at all times in order to support critical services, such as monitoring a

person's vital signs and accessing medical information. View the editors' introduction to the issue at <http://boldfish.ieee.org:80/u/2758/04824637>

- Who is Archibald Putt? The Technocrat's Mystique Continues. Coined in the 1980s, Putt's Law states that two types of people dominate technology: those who understand what they do not manage and those who manage what they do not understand. Rumored to be an industry leader cautiously hiding behind a pseudonym, Putt dishes on corporate environments, technology, and how to succeed in the industry. Listen to IEEE Spectrum Online editor Susan Hassler's interview with this unorthodox and humorous sage at <http://boldfish.ieee.org:80/u/2759/04824637>
- Nominate the Information Technology of the Decade. Submit a nomination for the IEEE Computer Society's Technology of the Decade Award, which will recognize a significant contribution to information technology from the last 10 years. The deadline for nominations is 15 June. For more information or to read about other activities that celebrate the society's 60th anniversary, visit <http://boldfish.ieee.org:80/u/2761/04824637>

IEEE-USA Offers Resources to Assist Tech-Based Entrepreneurs

WASHINGTON (4 May 2006) -- The new IEEE-USA Entrepreneurs Village is an online portal designed to provide high-tech entrepreneurs with tools and resources conducive to innovation and company growth. It links high-tech entrepreneurs with their peers, and prospective entrepreneurs with mentors.

Village members can seek advice and information on such topics as organization, funding, marketing, human resources, asset requirements, growth, best practices, and legal and government issues. A search engine will assist you in finding the right match to your needs. Experienced entrepreneurs are encouraged to become mentors.

IEEE-member entrepreneurs who make up the IEEE-USA Entrepreneurial Activities Committee (EAC) administer the virtual village.

"The Village allows you to conduct live chats and exchange useful Web links and articles with other entrepreneurs," said David Ostfeld, who co-chairs EAC with Mauro Togneri. "The networking and knowledge-gathering capabilities are endless."

The interactive Village provides access to networking and resources that will help new and established business owners. Members can post discussion items, link to articles, meet other entrepreneurs and find out about local entrepreneurial groups already established within U.S. IEEE Sections.

"Seventy-five percent of all innovation comes from small business, and successful small businesses become large businesses," Togneri said. "Expanding technology-based entrepreneurial business is critical to the U.S. economy and IEEE members' career vitality and employment."

Visit the Village at <http://www.ieeeusa.org/careers/entrepreneurs/>.

Acclaimed Fire Protection Engineer Headlines AAES' 27th Annual Awards Ceremony

WASHINGTON (5 May 2006) -- Harold E. "Bud" Nelson, one of the fathers of modern fire protection engineering, is being presented the American Association of Engineering Societies' (AAES) highest honor, the "National Engineering Award." He joins two other engineers and two journalists who are being recognized during AAES' 27th annual awards ceremony in the Great Hall of Washington's National Academy of Engineering on Monday, 8 May.

A Fellow of the Society of Fire Protection Engineers (SFPE), Nelson is receiving the award for inspired leadership and devotion to the improvement of fire protection engineering and the reduction of building fire threats to lives and property. His career has spanned more than 50 years, and in 2000, Fire Chief Magazine recognized him as “arguably the most influential fire protection engineer of the 20th century.”

The “National Engineering Award” is presented for inspirational leadership and tireless devotion to the improvement of engineering education and to the advancement of the engineering profession, as well as to the development of sound public policies as an engineer-statesman. Previous recipients include astronaut Neil Armstrong (1979) and former Lockheed Martin CEO Norm Augustine (1991).

Patrick Natale, executive director and chief staff officer and secretary of the American Society of Civil Engineers (ASCE), will receive the “Kenneth Andrew Roe Award” for commitment and leadership facilitating the U.S. engineering community’s unity across disciplines and for his dedication to expanding and diversifying the profession, as well as for his service to ASCE. His support of the Extraordinary Women Engineers Project led to the 2006 release of the book, *Changing our World: True Stories of Women Engineers*. He is a former president of the New Jersey Society of Professional Engineers.

The “Kenneth Andrew Roe Award” is presented on behalf of the engineering community to recognize an engineer who has been effective in promoting unity among engineering societies.

Celeste Baine, a biomedical engineer and director of the Engineering Education Service Center, is receiving the “Norm Augustine Award” for her work leading the center, and her award-winning authorship of numerous engineering career books such as *High Tech Hot Shots: Careers in Sports Engineering*. She authored the engineering section of the World Book Encyclopedia’s Science Year, and is listed on the Engineers Week Web site as one of 50 engineers you should meet.

The “Norm Augustine Award” is presented to an engineer who has demonstrated the ability to communicate the excitement and wonder of engineering so that the public may better understand the profession and better appreciate how engineers improve our quality of life.

Daniel Polin, president of the Great Projects Film Co., and Kenneth Mandel, Great Projects’ executive producer, will share the “Engineering Journalism Award” for the film projects, *America Rebuilds: A Year at Ground Zero*; *Incident at Morales: An Engineering Ethics Story*; and the four-part series, *Great Projects: The Building of America*. The Emmy-winning and Oscar-nominated Great Projects team is currently working on the September release of *The Foundation of Freedom, Part II*, a trilogy about rebuilding at Ground Zero.

The “Engineering Journalism Award” recognizes outstanding reporting of an event or issue that furthers public understanding of engineering.

The American Association of Engineering Societies (AAES) is a federation of engineering societies dedicated to advancing the knowledge, understanding and practice of engineering. AAES’ membership represents more than a half million engineers in the United States. www.aaes.org.

The IEEE Cincinnati Section Executive Committee

Member Names and Phone Numbers

Cincinnati Section Voice Mail	513-629-9380 (call for meeting reservations)
Section Web Page	http://ieee.cincinnati.fuse.net/
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Laurie Tappel - Treasurer	513-397-6383, laurie.tappel@cinbell.com (E-mail)
Ron Harbaugh - Secretary	513-769-3781, ron.harbaugh@ieee.org (E-mail)
Brian J. Resnick - Member-At-Large & PACE Chair	513-556-4244 (Office), 513-759-5367 (Fax), Brian.Resnick@ieee.org (E-mail)
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